Michigan Unmanned Aerial Systems Task Force

Welcome to MDOT's Office of Aeronautics

September 6, 2017 Agenda

- Welcome
- Overview of Private Use Issues
- Discussion of Private use Issues
- Selection of Report Sections for Private Use
- Future Meetings Schedule
- Public Comment

UAS - Private Sector

Opportunities & Challenges

Table of Contents

- Applications
- Expected Sales
- Value of Drones
- Concerns and Barriers
- Legislation
- Questions



Applications

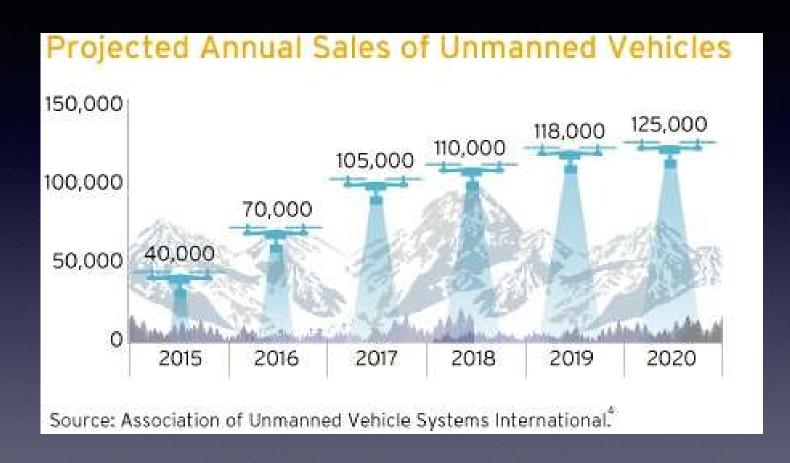
- Inspections
 - Public Infrastructure
 - Utility Infrastructure
 - Facility Management
 - Insurance
- Marketing
 - Tourism
 - Advertising
- Mapping / Surveying
 - Construction
 - First Responders / Law Enforcement
 - Agriculture





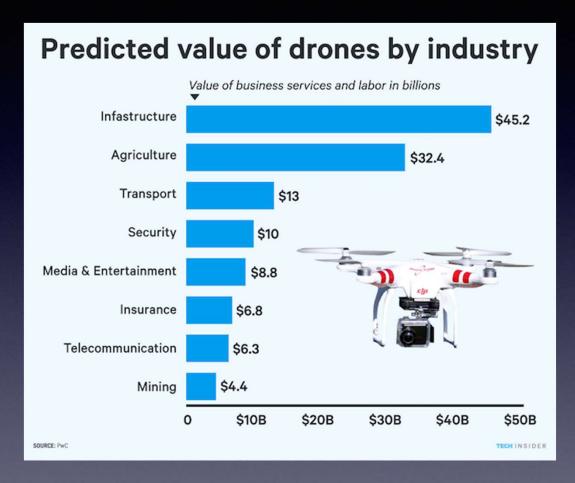


Expected Sales



Where will they be used?

Value of Drones



Creativity will decide future of UAV's

Value of Drones

Why use UAV's in commercial/private space?

Financial

• Faster, more cost effective, method yielding better results

Safety

Replacing the human element

Innovation

New opportunities appear frequently

Value of Drones

Specific Example: Utility Infrastructure

- Electric Line Inspections
 - Financial
 - Safety
 - Carbon Footprint
 - Customer Value (reliability)
- Wind Turbine Inspections
 - Financial
 - Safety
- Gas Facility Inspections
 - Financial
 - Safety



Concerns and Barriers

Privacy / Trespass

- Example: Real Estate Imagery of neighbors homes
- Communication, education, and transparency
- Secured Sites (Prisons)
 - Responsibility of Law Enforcement
 - Funding may need to come from state congress
- Variation in Rules Across the State
 - Creates issues for state-wide programs
- Beyond Visual Line of Sight (B)
 - · Limits some very beneficial use cases

Concerns and Barriers

Privacy with Imagery

- Unauthorized capture of people in imagery
 - Imagery cannot be used to promote a product, service, or idea
 - Example: Mapping a park and capturing imagery of people having a picnic.
 - Allowed under current Privacy Laws
- Authorized capture of people in imagery
 - Can be used to promote a product, service, or idea after proper authorization is received.

Reasonable Right to Privacy

- Operate UAVs under existing privacy laws.
- In a public space there is not a reasonable right to privacy.
- In your home there is a reasonable right to privacy.

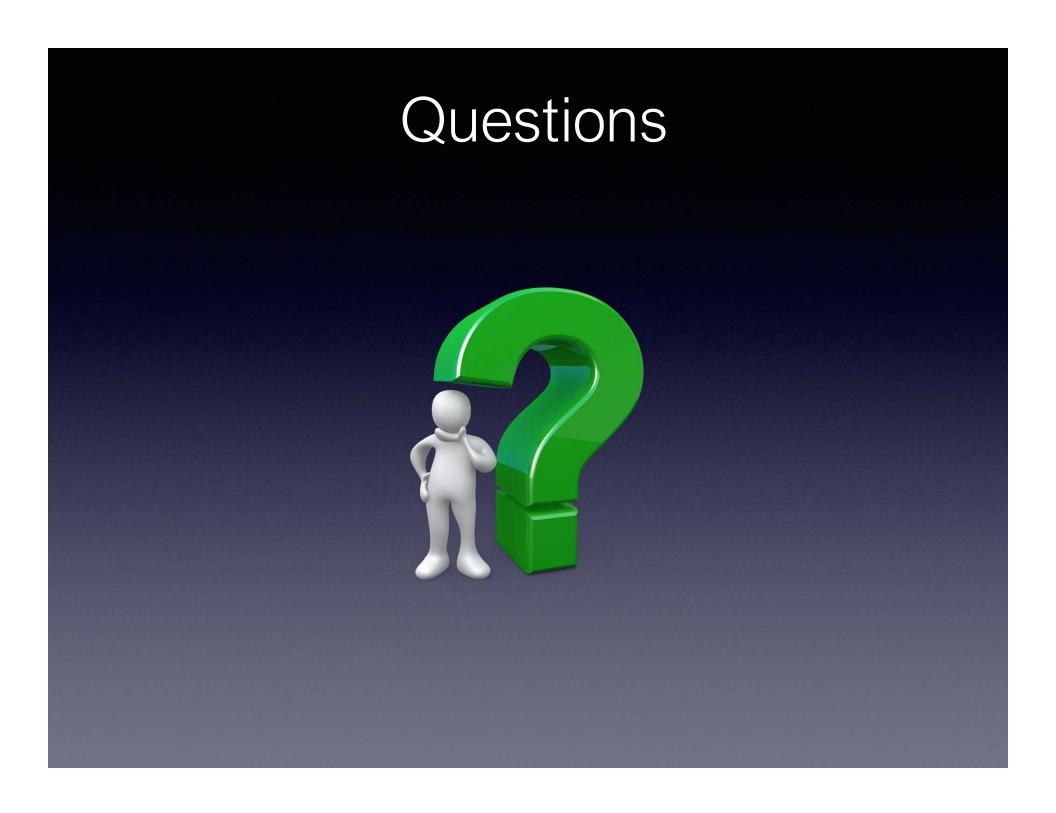
Legislation

General Rules

- Avoid Redundant UAV Specific Legislation
 - If a statue already covers it, don't duplicate for UAVs
 - Example: Rights to access property
- Licensure Should Provide Operational Benefits
 - Additional requirements put on commercial UAV use should come with operational leeway

Specific Rules

- Privacy /Trespass
 - Operate under existing privacy laws currently used by
- Beyond Visual Line of Sight
 - Allow licensed pilots to operate BVLOS with additional safety restrictions
 - Would required coordination with FAA.



Report Inclusion - Private Use

Group Discussion

- Privacy
- Use of Imagery
- Uniformity Across State
- Identification of UAS (UTM)

Future Meetings - Schedule

- Schedule
 - September 27
 - October 11
 - November 1
 - November 8
 - November 15
 - November 20th (approx. 90 days)

Future Meetings – Topics

- Private UAS Use Opportunities / Challenges
 - Group leader for presentation
- Public UAS Use Opportunities / Challenges
 - Group leader for presentation
- Economic Development and State Support For Growth
- Report Drafting

Task Force Open Discussion

Questions, Comments, Concerns

Public Comment